

USSN 10/506,345
Atty. Docket No. 1103326-0777
Page 2 of 7

RECEIVED
CENTRAL FAX CENTER
SEP 11 2007

Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Previously presented) An $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole, wherein:

R_1 is a linear or branched $\text{C}_1\text{-C}_{12}$ -alkyl group, or a cyclic $\text{C}_3\text{-C}_{12}$ -alkyl group, wherein the linear or branched $\text{C}_1\text{-C}_{12}$ alkyl group is optionally substituted or interrupted with a substituent selected from the group consisting of a cyclic $\text{C}_3\text{-C}_6$ -alkyl group, a cyclic $\text{C}_3\text{-C}_6$ -alkylene group, a phenyl group, and a phenylene group, and wherein the cyclic $\text{C}_3\text{-C}_6$ -alkyl group, the cyclic $\text{C}_3\text{-C}_6$ -alkylene group, the phenyl group, or the phenylene group is optionally further substituted by 0, 1, 2, or 3 methyl groups; and

R_2 and R_3 are hydrogen.

2. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to claim 1, wherein R_1 is a linear or branched $\text{C}_1\text{-C}_6$ -alkyl group, or a cyclic $\text{C}_3\text{-C}_6$ -alkyl group, wherein the linear or branched $\text{C}_1\text{-C}_6$ -alkyl group is optionally substituted or interrupted with a substituent selected from the group consisting of a cyclic $\text{C}_3\text{-C}_5$ -alkyl group, a cyclic $\text{C}_3\text{-C}_5$ -alkylene group, a phenyl group, or a phenylene group, and wherein the cyclic $\text{C}_3\text{-C}_5$ -alkyl group, the cyclic $\text{C}_3\text{-C}_5$ -alkylene group, the phenyl group, or the phenylene group is optionally further substituted by 0, 1, 2, or 3 methyl groups.

3. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to claim 1, wherein R_1 is a linear, branched, or cyclic C_4 -alkyl group, wherein the linear or branched C_4 -alkyl group is optionally substituted or interrupted with a cyclic C_3 -alkyl group or a cyclic C_3 -alkylene group, and wherein the cyclic C_3 -alkyl group or the cyclic C_3 -alkylene group is further substituted by 0, 1, 2, or 3 methyl groups.

USSN 10/506,345
Atty. Docket No. 1103326-0777
Page 3 of 7

4. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to claim 1, wherein the salt has a pKa value equal to or greater than about 10.
5. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to claim 1, wherein the salt has a pKa value equal to or greater than about 10.5.
6. (Canceled)
7. (Canceled).
8. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to claim 1, wherein the salt is the *tert*-butylammonium salt of omeprazole.
9. (Canceled)
10. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to claim 1, wherein the salt is crystalline.
11. (Previously presented) A process for preparation of an $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to any one of claims 1-5, 8, or 10, which comprises the steps of:
 - a) dissolving omeprazole in an organic solvent;
 - b) adding an $\text{NR}_1\text{R}_2\text{R}_3$ compound and precipitating the desired salt; and
 - c) isolating and drying the obtained salt of omeprazole.
12. (Previously presented) The process according to claim 11, wherein the organic solvent is acetonitrile or *tert*-butyl methyl ether.
13. (Canceled)
14. (Canceled)

USSN 10/506,345
Atty. Docket No. 1103326-0777
Page 4 of 7

15. (Currently amended) A pharmaceutical composition comprising the $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of omeprazole according to any one of claims 1-5, 8, or 10 as active ingredient in association with pharmaceutically acceptable excipients ~~and optionally one or more additional therapeutic ingredients.~~

16. (Canceled)

17. (Currently amended) A method for inhibiting gastric acid [related] secretion comprising administering to a patient suffering from the condition a therapeutically effective amount of the $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt according to any one of claims 1-5, 8, or 10.

18. (Previously presented) An $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole, wherein:

R_1 is a linear or branched C_1 - C_{12} -alkyl group, or a cyclic C_3 - C_{12} -alkyl group, wherein the linear or branched C_1 - C_{12} alkyl group is optionally substituted or interrupted with a substituent selected from the group consisting of a cyclic C_3 - C_6 -alkyl group, a cyclic C_3 - C_6 -alkylene group, a phenyl group, and a phenylene group, and wherein the cyclic C_3 - C_6 -alkyl group, the cyclic C_3 - C_6 -alkylene group, the phenyl group, or the phenylene group is optionally further substituted by 0, 1, 2, or 3 methyl groups; and

R_2 and R_3 are hydrogen.

19. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to claim 18, wherein R_1 is a linear or branched C_1 - C_6 -alkyl group or a cyclic C_3 - C_6 -alkyl group, wherein the linear or branched C_1 - C_6 alkyl group is optionally substituted or interrupted with a substituent selected from the group consisting of a cyclic C_3 - C_5 -alkyl group, a cyclic C_3 - C_5 -alkylene group, a phenyl group, or a phenylene group, and wherein the cyclic C_3 - C_5 -alkyl group, the cyclic C_3 - C_5 -alkylene group, the phenyl group, or the phenylene group is optionally further substituted by 0, 1, 2, or 3 methyl groups.

USSN 10/506,345
Atty. Docket No. 1103326-0777
Page 5 of 7

20. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to claim 18, wherein R_1 is a linear, branched, or cyclic C_4 -alkyl group, wherein the linear or branched C_4 -alkyl group is optionally substituted or interrupted with a cyclic C_3 -alkyl group or a cyclic C_3 -alkylene group, and wherein the cyclic C_3 -alkyl group or the cyclic C_3 -alkylene group is further substituted by 0, 1, 2, or 3 methyl groups.

21. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to claim 18, wherein the salt has a pK_a value equal to or greater than about 10.

22. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to claim 18, wherein the salt has a pK_a value equal to or greater than about 10.5.

23. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to claim 18, wherein the salt is the *tert*-butylammonium salt of esomeprazole.

24. (Previously presented) The $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to claim 18, wherein the salt is crystalline.

25. (Previously presented) A process for preparation of an $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to any one of claims 18-24, which comprises the steps of:

- a) dissolving esomeprazole in an organic solvent;
- b) adding an $\text{NR}_1\text{R}_2\text{R}_3$ compound and precipitating the desired salt; and
- c) isolating and drying the obtained salt of esomeprazole.

26. (Previously presented) The process according to claim 25, wherein the organic solvent is acetonitrile or *tert*-butyl methyl ether.

USSN 10/506,345

Atty. Docket No. 1103326-0777

Page 6 of 7

27. (Currently amended) A pharmaceutical composition comprising the $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt of esomeprazole according to any one of claims 18-24 as active ingredient in association with pharmaceutically acceptable excipients ~~and optionally one or more additional therapeutic ingredients.~~

28. (Previously presented) A method for inhibiting gastric acid secretion comprising administering to a patient suffering from the condition a therapeutically effective amount of the $\text{NHR}_1\text{R}_2\text{R}_3^+$ salt according to any one of claims 18-24.

29. (Canceled)